

To: Hestmark, Martin[Hestmark.Martin@epa.gov]; Wharton, Steve[Wharton.Steve@epa.gov]; Peterson, Cynthia[Peterson.Cynthia@epa.gov]
From: Schmittiel, Paula
Sent: Fri 9/12/2014 5:21:11 PM
Subject: FW: your mail - Handouts for Availability Session from Rob Runkel
[sources.pdf](#)

Some bar charts that Rob Runkel has put together as handouts at the availability session.

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-----Original Message-----

From: Rob Runkel [mailto:runkel@usgs.gov]
Sent: Friday, September 12, 2014 10:59 AM
To: Way, Steven; Wall, Dan; Schmittiel, Paula; Lewis, Brent R
Subject: Re: your mail

Here are the slides that will be used to make the points mentioned in the email below. Hope to put these in the handout for the info session as well. - Rob

p.s. if you look closely there will be some small differences in the percentages in these plots and the ones in the tables I sent yesterday; these differences are due to the fact that all of the individual loads quantified for Cement Creek do not make it to the mouth -- I can elaborate if needed, but the bottom line is the song remains the same....

On Thu, 11 Sep 2014, Rob Runkel wrote:

>
> Dear All --
>
> Here's a revised loading table for the Oct 2012 data; this is the
> basic information that went into the bar chart from my June 2013
> presentation to the stakeholders. I did make one small change in the
> flow profile during model calibration that resulted in a small
> increase in the loads attributable to the Upper Animas. But the basic findings are the same.
>
> Although the basic findings are the same, the fresh look at these
> numbers reveals a few things that are of importance (and that perhaps
> we already knew..). Focusing on the 4 metals that are above standards
> all the way to A72
> -- Al, Cd, Fe, and Zn -- I plan to make the following points...
>
>
> Al -- the top 7 loaders (84% of the load) are all downstream of Gladstone;
> only 6.6% of the load is from above Gladstone;
>
> Cd -- the top 2 loaders (40% of load) are downstream of Gladstone;

> 26% of the load is from above Gladstone;
>
> Fe -- the top 2 loaders (64%) are downstream of Gladstone;
> 17.6% of the load is from above Gladstone
>
> Zn -- 41% of the loading is from above Gladstone, including the
> largest loader, the Red & Bonita (19%)
>
> Overall the Gladstone area is an appropriate focus if you're looking
> at Zn; not so much for Al, Cd, and Fe.
>
> Mineral Creek is an important source (Al: #1 source; Cd: #2 source;
> Fe: #2
> source)
>
> Prospect Gulch is an important source (Al: #2; Fe: #1;).
>
> U. Animas is an important source (Cd: #1; Zn: #2)
>
> I still need to sum all the Cement loads so that I'm comparing apples
> and apples when looking at Mineral and U Animas.
>
> -- Rob
>
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